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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 6891371 B1

Using default format because multiple data bases are involved.

L21: Entry 1 of 4 File: USPT May 10, 2005

US-PAT-NO: 6891371
DOCUMENT-IDENTIFIER: US 6891371 B1

**** See image for Certificate of Correction ****

TITLE: Method and system of generating an MRS spectrum from multiple receiver data

DATE-ISSUED: May 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Frigo; Frederick J.	Waukesha	WI		
Heinen; James A.	Wauwatosa	WI		
Raidy; Thomas E.	Elm Grove	WI		
Hopkins; Jeffery A.	Pewaukee	WI		

US-CL-CURRENT: 324/307; 324/309

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

☐ 2. Document ID: US 5570019 A

L21: Entry 2 of 4 File: USPT Oct 29, 1996

US-PAT-NO: 5570019
DOCUMENT-IDENTIFIER: US 5570019 A

TITLE: Method for magnetic resonance spectroscopic imaging with multiple spin-echoes

DATE-ISSUED: October 29, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moonen; Chrit T. W.	Silver Spring	MD		
Duyn; Jeff	Kensington	MD		

US-CL-CURRENT: 324/309; 324/307

☐ 3. Document ID: US 5192909 A

L21: Entry 3 of 4 File: USPT Mar 9, 1993

US-PAT-NO: 5192909
DOCUMENT-IDENTIFIER: US 5192909 A

TITLE: Spectroscopic localization using pinwheel NMR excitation pulses .

DATE-ISSUED: March 9, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hardy; Christopher J.	Schenectady	NY		
Bottomley; Paul A.	Clifton Park	NY		
Cline; Harvey E.	Schenectady	NY		

US-CL-CURRENT: 324/309; 324/307

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

☐ 4. Document ID: US 4585992 A

L21: Entry 4 of 4 File: USPT Apr 29, 1986

US-PAT-NO: 4585992
DOCUMENT-IDENTIFIER: US 4585992 A

TITLE: NMR imaging methods

DATE-ISSUED: April 29, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maudsley; Andrew A.	Woburn	MA		
Hilal; Sadek K.	New York	NY		
Simon; Howard E.	Monroe	CT		

US-CL-CURRENT: 324/309; 324/312, 324/320

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

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Term	Documents

BODY	4231828
BODIES	493208
BODYS	433
SURFACE	8161920
SURFACES	2713709
COIL	1276720
COILS	423559
LOCAL$2	0
LOCAL	763823
LOCALA	27
LOCALAD	2
(L16 AND ((BODY OR SURFACE OR LOCAL$2) WITH COIL)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

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☐ 1. Document ID: US 6891371 B1

Using default format because multiple data bases are involved.

L25: Entry 1 of 1 File: USPT May 10, 2005

US-PAT-NO: 6891371
DOCUMENT-IDENTIFIER: US 6891371 B1
** See image for Certificate of Correction **

TITLE: Method and system of generating an MRS spectrum from multiple receiver data

DATE-ISSUED: May 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Frigo; Frederick J.	Waukesha	WI		
Heinen; James A.	Wauwatosa	WI		
Raidy; Thomas E.	Elm Grove	WI		
Hopkins; Jeffery A.	Pewaukee	WI		

US-CL-CURRENT: 324/307; 324/309

Term	Documents
BODY	4231828
BODIES	493208
BODYS	433
SURFACE	8161920
SURFACES	2713709
REFERENCE	5173804
REFERENCES	1641522
SCAL$4	0
SCAL	9762
SCALA	1541

SCALAALY	1
(L24 AND ((SCAL$4 OR WEIGHT$4) WITH (BODY OR SURFACE OR LOCAL$2 OR REFERENCE))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1

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L25: Entry 1 of 1 File: USPT May 10, 2005

DOCUMENT-IDENTIFIER: US 6891371 B1
** See image for Certificate of Correction **
TITLE: Method and system of generating an MRS spectrum from multiple receiver data

Detailed Description Text (11):
The reference data, r[n], undergoes DC mixing 116, zero phasing 118, linear phase correction 120 and phase spline smoothing 122, to determine a phase correction vector 124, c[n]. Additionally, the reference data, r[n], is used to determine weighting 125 for the data of a respective coil. Simply, weighting 125 is carried out to determine data influence from a particular coil on a combined spectrum or image. Specifically, if it is determined that the data of a particular coil should be used, the reference data, r[n], is also used to assign weight to the receiver channels.

Detailed Description Text (12):
The weighting 125 can be determined through multiple considerations. For a particular coil, a maximum magnitude for the averaged reference data, r[n], can be used as a particular weighting factor, w.sub.i. Additionally, channels that have a significantly weak signal relative to the channel with the strongest signal are not used for the combined results and assigned a weight factor of zero. Specifically, in multi-channel MRS, regions of interest close to receive coil elements benefit from improved signal-to-noise ratios. Therefore, data received from regions of interest close to receive coil elements are appropriately weighted to take advantage of the improved signal-to-noise ratios. The signal characteristics from each coil depend on a number of factors including the orientation of the coil with respect to the B.sub.0 field, the proximity of the coil to the volume generating the signal, coil loading, coil-to-coil coupling effects, and the permeability and permitivity of the medium through which the radio-frequency signal travels prior to being received by the coil elements. Accordingly, the current invention weights data received to take advantage of the improved signal-to-noise ratios. Once weighted, the data is then normalized according to: ##EQU2##

Detailed Description Text (19):
respectively. Water subtraction 128, in which a scaled version of the reference data set is subtracted from the water-suppressed data set of each receiver channel, is performed and a Fourier Transform is applied 130 to the phase-corrected, water-suppressed data set, S.sub.corrected [n], with residual water removed. Prior to computing a frequency spectrum, S.sub.results [k], the data is zero-padded for greater resolution. The results of the Fourier Transform 130, for each receiver coil, where the number of receive coils is L, is combined 132 by summing the computed results from the frequency spectrum S.sub.results [k], wherein

Detailed Description Text (42):
The reference data, r[n], is subjected to the DC mixing 116, zero phasing 118, linear phase correction 120, and phase spline smoothing 122 to compute 124 a phase correction vector, c[n]. Additionally, the reference data sets, r[n], are used to determine whether data from a particular coil should be used 125 to generate combined results. If it is determined that data from a particular coil should be

used, the reference data set, r[n], is also used to assign weights 125 to each receiver coil.

Detailed Description Text (45):
As previously described, water-suppressed data sets are also collected 110 from each coil element and the data from each coil element is averaged to obtain a number of averaged, water-suppressed data sets, s[n] 112. Data acquired during the reference acquisition is used to compute a phase correction vector 124 that is applied to the water-suppressed data 126. The reference data is also used to remove residual water. The phase correction vector, c[n] 128, is applied to the reference data, r[n] 127, and the water-suppressed data, s[n] 126. Applying c[n] removes residual water signal from the water-suppressed data sets, r[n]. Water subtraction 128, in which a scaled version of the reference data sets is subtracted from the water-suppressed data sets, is performed and a nonparametric technique, implementing an adaptive filter bank, is used to generate the results from the phase-corrected, water-suppressed data sets with residual water effects removed. Specifically, either a 2D Capon or 2D APES technique is employed. The current invention performs pre-processing of raw data prior to 2D Capon or 2D APES by applying the previously described method of MRS data pre-processing involving phase correction and residual water removal.

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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20030022105 A1

Using default format because multiple data bases are involved.

L26: Entry 1 of 4 File: PGPB Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030022105
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030022105 A1

TITLE: TWO -PHOTON UPCONVERTING DYES AND APPLICATIONS

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
PRASAD, PARAS N.	WILLIAMSVILLE	NY	US
BHAWALKAR, JAYANT D.	TONAWANDA	NY	US
CHENG, PING	WILLIAMSVILLE	NY	US
PAN, SHAN JEN	PLANO	TX	US

US-CL-CURRENT: 430/270.15; 128/898, 430/19, 430/270.18, 430/945, 514/356

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Di

☐ 2. Document ID: US 6891371 B1

L26: Entry 2 of 4 File: USPT May 10, 2005

US-PAT-NO: 6891371
DOCUMENT-IDENTIFIER: US 6891371 B1
** See image for Certificate of Correction **

TITLE: Method and system of generating an MRS spectrum from multiple receiver data

DATE-ISSUED: May 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Frigo; Frederick J.	Waukesha	WI		
Heinen; James A.	Wauwatosa	WI		
Raidy; Thomas E.	Elm Grove	WI		
Hopkins; Jeffery A.	Pewaukee	WI		

US-CL-CURRENT: 324/307; 324/309

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

☐ 3. Document ID: US 6402037 B1

L26: Entry 3 of 4 File: USPT Jun 11, 2002

US-PAT-NO: 6402037
DOCUMENT-IDENTIFIER: US 6402037 B1

TITLE: Two-photon upconverting dyes and applications

DATE-ISSUED: June 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Prasad; Paras N.	Williamsville	NY		
Bhawalker; Jayant D.	Tonawanda	NY		
Cheng; Ping Chin	Williamsville	NY		
Pan; Shan Jen	Amherst	NY		

US-CL-CURRENT: 235/487; 235/454

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

☐ 4. Document ID: US 5912257 A

L26: Entry 4 of 4 File: USPT Jun 15, 1999

US-PAT-NO: 5912257
DOCUMENT-IDENTIFIER: US 5912257 A

TITLE: Two-photon upconverting dyes and applications

DATE-ISSUED: June 15, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Prasad; Paras N.	Williamsville	NY		
Bhawalkar; Jayant D.	Tonawanda	NY		
He; Guang S.	Williamsville	NY		
Zhao; Chan F.	San Diego	CA		
Gvishi; Raz	K. Tiron			IL
Ruland; Gary E.	Grand Island	NY		
Zieba; Jaroslaw	Santa Rosa	CA		
Cheng; Ping Chin	Williamsville	NY		
Pan; Shan Jen	Amherst	NY		

US-CL-CURRENT: 514/356; 250/338.1, 430/338, 430/343, 514/709, 522/6, 546/329, 546/334, 568/34

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D

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Term	Documents
BODY	4231828
BODIES	493208
BODYS	433
SURFACE	8161920
SURFACES	2713709
REFERENCE	5173804
REFERENCES	1641522
SCAL$4	0
SCAL	9762
SCALA	1541
SCALAALY	1
(L16 AND ((SCAL$4 OR WEIGHT$4) WITH (BODY OR SURFACE OR LOCAL$2 OR REFERENCE))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

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Hide Items | Restore | Clear | Cancel

DATE: Monday, March 27, 2006

Hide?	Set Name	Query	Hit Count
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☐	L30	L11 and ((scal$4 or weight$4) with (body or surface or local$2 or reference) with (signal))	0
☐	L29	L14 and ((scal$4 or weight$4) with (body or surface or local$2 or reference) with (signal))	0
☐	L28	L15 and ((scal$4 or weight$4) with (body or surface or local$2 or reference) with (signal))	0
☐	L27	L26 and ((scal$4 or weight$4) with (body or surface or local$2 or reference) with (signal))	0
☐	L26	L16 and ((scal$4 or weight$4) with (body or surface or local$2 or reference))	4
☐	L25	L24 and ((scal$4 or weight$4) with (body or surface or local$2 or reference))	1
☐	L24	6891371	2
☐	L23	l21 and ((scal$4 or weight$4) with (body or surface or local$2 or reference))	1
☐	L22	L21 and ((reference) with ((body or surface or local$2) with coil))	0
☐	L21	L16 and ((body or surface or local$2) with coil)	4
☐	L20	L17 and ((reference) with (body with coil))	0
☐	L19	L16 and (reference with body with coil)	0
☐	L18	L17 and (reference with body with coil)	0
☐	L17	L16 and (body with coil)	4
☐	L16	L15 and ((composite or compound or add$3 or addition or summation or sum$4) with (spectrum))	11
☐	L15	L14 and ((composite or compound or add$3 or addition or summation or sum$4) with (signal))	48
☐	L14	L12 and (composite or compound or add$3 or addition or summation or sum$4)	87
☐	L13	L11 and (composite or compound or add$4 or addition or summation or sum$4)	97
☐	L12	L11 and (water or fat$2 or lipid$3 or "H2O" or "H.sub.2.O")	87
☐	L11	L10 and ("SNR" or (signal with noise) or ratio)	97
☐	L10	L9 and (((plurality or group or set or multiple or "multi") with coil) or array)	105
☐	L9	L8 and (phas$3 or array)	163
☐	L8	L7 and (scal$4 or weight$4)	177
☐	L7	L6 and (voxel or (volume with element))	203
		L5 and (transmit$4 or excit$3 or excitation or generat$4 or detect$3 or	

☐	L6	receiv$4 or recep$4 or sensor or senser or sens$3 or transceiv$4)	4530
☐	L5	L4 and (reference or calibrat$4 or initial$4 or blank$3 or preparatory or pre-paratory or preliminary or prescan$4 or pre-scan$4)	4567
☐	L4	L3 and (intensity or amplitude or magnitude or peek or peak)	4633
☐	L3	L2 and (spectroscop$4)	6184
☐	L2	L1 and ((magnetic adj resonance) or MRI or NMR)	16781
☐	L1	(metabolite)	52954

END OF SEARCH HISTORY